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| Form PTO-1449 Equivalent | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DKT. NO. 500.43031X00 | SERIAL NO. 10/642,632 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT TANAKA et al | |
| | | FILING DATE August 19, 2003 | GROUP 1745 |

U.S. PATENT DOCUMENTS

| Ex. Initial | Doc. No. | Date | Name | Class | Subclass | Filing Date |
|-------------|----------|------|------|-------|----------|-------------|
| AA | | | | | | |
| AB | | | | | | |
| AC | | | | | | |
| AD | | | | | | |
| AE | | | | | | |
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| AH | | | | | | |

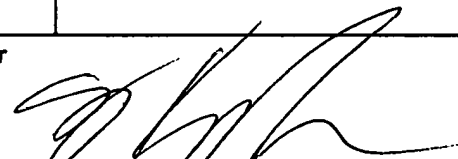
U.S. PATENT APPLICATIONS

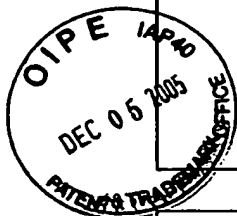
| | Publication Number | Name | Publication Date |
|----|--------------------|------|------------------|
| AI | | | |
| AJ | | | |
| AK | | | |
| AL | | | |

FOREIGN PATENT DOCUMENTS

| | Doc. No. | Date | Country | Class | Subclass | Translation/Abstract? | |
|-------------------------------------|----------|------------|---------|-------|----------|-----------------------|----------|
| | | | | | | Yes | No |
| <input checked="" type="checkbox"/> | AM | 2000-90956 | 3/2000 | Japan | H01A | 8/29 | Abstract |
| <input checked="" type="checkbox"/> | AN | 64-43553 | 3/89 | Japan | H01A | 8/02 | X |
| | AO | | | | | | |
| | AP | | | | | | |
| | AQ | | | | | | |

OTHER DOCUMENTS

| | |
|---|-----------------|
| AR | |
| AS | |
| AT | |
| Examiner | Date Considered |
|  | 3/23/06 |



2 of 2

W905

INFORMATION UNDER 37 CFR 1.56(a)
(For Initial Filing)

The following references are submitted as information
to comply with the duty of disclosure under 37 CFR 1.56(a):

| References | Disclosed in the specification | | Copy | | | Translation (English Abstract) | |
|-----------------------|--------------------------------------|----|------|--------|------------------|--------------------------------------|----------------------|
| | Yes | No | Enc. | Follow | Please Obtain | Enc. | Not availa ble |
| 801c 1. JP-A-09-22720 | X | | X | | | X | |
| 2. | | | | | | | |
| 3. | | | | | | | |
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| 10. | | | | | | | |

Concise Explanation (Relevant Portion)



3/23/06